

Title (en)
SELF LOCKING COMPACT COUPLING

Title (de)
SELBSTVERRIEGELNDE KOMPAKT-KUPPLUNG

Title (fr)
MEMBRE DE COUPLAGE COMPACTE AUTOVERROUILLANT

Publication
EP 2838782 A1 20150225 (DE)

Application
EP 13721611 A 20130418

Priority
• DE 102012103404 A 20120418
• EP 2013058123 W 20130418

Abstract (en)
[origin: CA2870768A1] The invention proposes a coupling for connecting a two-track trailer, which has at least one drawbar, to a non-motorized vehicle or to a vehicle which has merely an auxiliary drive, in particular to a bicycle, having two interacting coupling parts which can be released from one another and of which one can be connected in a positionally fixed manner to the vehicle and the other can be connected to the drawbar, which coupling has at least the following features: - a bolt (1) with a cylindrical shell surface and with a bushing (2) or bolt guide, which can be plugged onto the bolt (1) and which engages at least partially around the bolt, as interacting coupling parts, wherein the bushing (2) or bolt guide has at least one opening for the insertion of the bolt (1), and the interconnected coupling parts are rotatable relative to one another about their common longitudinal axis and act as a rotary joint with one degree of freedom, - wherein the coupling parts have locking means by which the coupling parts can be securely connected to one another, and - wherein, on the drawbar, there are provided further joints by which the coupling has imparted to it at least two further degrees of freedom.

IPC 8 full level
B60D 1/02 (2006.01); **B60D 1/52** (2006.01); **B62K 27/12** (2006.01)

CPC (source: EP US)
B60D 1/145 (2013.01 - EP US); **B62K 27/12** (2013.01 - EP US); **B62K 27/14** (2013.01 - EP US); **B60D 2001/003** (2013.01 - EP US)

Citation (search report)
See references of WO 2013156578A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
DE 202013101676 U1 20130617; AU 2013251128 A1 20141106; AU 2017202999 A1 20170525; CA 2870768 A1 20131024; CN 104395188 A 20150304; DE 102012103404 A1 20131024; DE 102012103404 B4 20220630; DE 202013012639 U1 20180205; DE 202013012641 U1 20180205; DE 202013012643 U1 20180205; EP 2838782 A1 20150225; EP 2838782 B1 20180321; EP 3309051 A1 20180418; EP 3309051 B1 20200617; EP 3680160 A1 20200715; EP 3680160 B1 20210915; EP 3680160 B8 20211027; ES 2893799 T3 20220210; PL 3680160 T3 20220207; US 2015115573 A1 20150430; US 2016159175 A1 20160609; WO 2013156578 A1 20131024

DOCDB simple family (application)
DE 202013101676 U 20130418; AU 2013251128 A 20130418; AU 2017202999 A 20170505; CA 2870768 A 20130418; CN 201380031704 A 20130418; DE 102012103404 A 20120418; DE 202013012639 U 20130418; DE 202013012641 U 20130418; DE 202013012643 U 20130418; EP 13721611 A 20130418; EP 17204030 A 20130418; EP 2013058123 W 20130418; EP 20160229 A 20130418; ES 20160229 T 20130418; PL 20160229 T 20130418; US 201314395354 A 20130418; US 201615046135 A 20160217